

Project: *Dataingenjörens arbete*, 3 hp. (Provkod: 0100) (2019)

Purpose:

The first purpose of this project is to give you the opportunity to use the techniques of developing a written report, which are very similar to those of developing a program:

1. Investigation of the subject (understanding the problem)
2. Planning the project (developing specifications)
3. Collecting and coalescing the data (designing the system)
4. Drafting and outlining (flowcharting)
5. Writing (or implementation)
6. Communication and Explanation (debugging and maintenance)

Assignment:

Study a computer pioneer in detail. Establish his/her place in the history of computing. You are expected to:

- Write a short biography of this person;
- Analyze their contributions to the field of computing; and explain what it means technically.
- Evaluate the "downstream" impact of their contributions on today's world of computing. What do we have today that would not have been possible without their contribution?

In your report you are expected to put considerable effort and description on the contribution to the field of computing, and less effort on the actual biography. You should explain why their contribution was so important and what impact it has had in the history of computing. Since you are performing the report in groups, an important part of your work will be to divide the workload among you.

Give special attention to the following:

- Use only reliable sources of references. Read your references thoroughly.
- You may write in Swedish or English
- Use proper headings ("rubrik") in the text. It should be clear what each portion of the text is about, text must be written in 12 pt (Times new Roman).
- Make sure that you have a title page that provides the names of the people in the group, the title of the report, and other relevant information for a title page.
- Absolutely no cut and pasting or copying text that is not yours. If there is any suspicion of cheating, the instructor will report you directly to the disciplinary board

which will investigate the issue. All reports will be submitted to UrKund – an automatic software system which detects copied text – and across languages!

You will be required to:

- Submit a report of approximately 3-4 pages on the topic given to you.
- Provide adequate references in your report. Use reliable sources (not only web references)

Part of this assignment also assumes that you have done this:

- Attend the activities related to oral presentation technique (rhetoric)
- Fulfil the assignment/self-reflection related to oral presentations

List of Pioneers

1. Alan Turing
2. Grace Hopper
3. Ada Lovelace
4. Noam Chomsky
5. Donald Knuth
6. Marvin Minsky
7. Linus Torvalds
8. Geoffrey Hinton
9. Shafi Goldwasser
10. Adele Goldberg

Deadline: November 7th (at midnight) – all reports are to be submitted via Blackboard.